

Listing of Claims:**Claims 1-10 (previously cancelled).**

11. (currently amended) Method for of determining the position of a rotationally drivable tool used in machining so that the position may be used in continued machining, having the following steps:

- providing a measuring beam (18),
- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position, and
- determining the position of the tool (14) from the measuring position, wherein
- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14).

Claim 12. (previously added) Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is interrupted.

Claim 13 (previously added) Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is periodically interrupted by the rotating tool (14).

Amendment Response
Serial No. 10/784,069 Group Art Unit 2877
Atty. Docket No. 16589-4
Page 2 of 7

Claim 14 (previously added) Method according to claim 11, in which the tool (14) is rotated at a predetermined rotational speed.

Claim 15 (previously added) Method according to claim 11, in which the tool (14) is moved at a predetermined velocity.

Claim 16 (currently amended) Method ~~for~~ of determining the position of a rotationally drivable tool used in machining so that the position may be used in continued machining, having the following steps:

- providing a measuring beam (18),
- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18),

to a measuring position in which the tool (14) is separated from the measuring beam (18),

- detecting the measuring position, and

determining the position of the tool (14) from the measuring position, wherein

- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14), and
the tool position is determined in dependence on the rotational speed and the movement velocity of the tool (14).

Claim 17 (previously added) Method according to claim 11, in which the moving of the tool (14) away from the measuring beam (18) is ended when the measuring position is reached.

Amendment Response
Serial No. 10/784,069 Group Art Unit 2877
Atty. Docket No. 16589-4
Page 3 of 7

Claims 18-19 (previously cancelled).

Claim 20. (currently amended) Device Method according to claim 11
comprising the further step of providing an optical measuring device (10, 12) with having
a transmitter (10) for emitting a measuring beam (18) and a receiver (12) for selectively
receiving the measuring beam (18).

Amendment Response
Serial No. 10/784,069 Group Art Unit 2877
Atty. Docket No. 16589-4
Page 4 of 7